

PCT

P27664.A02

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Hiroshi YAMAMOTO et al.

Group Art Unit: Unknown

Appln. No. : 10/530,330 ✓

Examiner: Unknown

Filed : April 5, 2005

For : SPINEL FERRIMAGNETIC PARTICLES AND MAGNETIC
RECORDING MEDIUM

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
U.S. Patent and Trademark Office
Customer Service Window, Mail Stop Amendment
Randolph Building
401 Dulany Street
Alexandria VA 22314

Sir:

In accordance with the duty of disclosure under 37 C.F.R. 1.56, 1.97, and 1.98, Applicants hereby bring the following information to the attention of the Examiner in charge of the above-identified application, which includes information cited and discussed in the specification, the International Search Report, the Written Opinion and the International Preliminary Examination Report issued in connection with counterpart International Application No. PCT/JP2003/013240. Copies of the International Search Report (in English and Japanese), the Written Opinion (in Japanese) and the International Preliminary Examination Report (in Japanese) were enclosed with the papers when entering the National Stage on April 5, 2005. The Examiner is invited to review these materials to inspect the relevance indicated during international examination with respect to the documents cited therein.

JP H05-32420 A, accompanied by an English language abstract;

JP H06-20820 A, accompanied by an English language abstract;
JP H06-53022 A, accompanied by an English language abstract;
JP H07-37711 A, accompanied by an English language abstract;
JP H07-61814 A, accompanied by an English language abstract;
JP H07-267645 A, accompanied by an English language abstract;
JP H08-26731 A, accompanied by an English language abstract;
JP H08-208231 A, accompanied by an English language abstract;
JP H11-224812 A, accompanied by an English language abstract;
JP 2000-103616 A, accompanied by an English language abstract;
JP 2001-048529 A, accompanied by an English language abstract;
JP 2002-313618 A, accompanied by an English language abstract;
JP H11-3813 A, accompanied by an English language abstract;
JP H6-45129 A, accompanied by an English language abstract;
JP S52-7160 B;
JP S50-78599 A;
JP H07-267645 A, accompanied by an English language abstract;
JP H06-224020 A, accompanied by an English language abstract;
JP H08-119635 A, accompanied by an English language abstract;
JP H07-315844 A, accompanied by an English language abstract;
JP S63-11525 A, and family members EP 0 249 229 A2, EP 0 460 714 A2, U.S.
Patent No. 4,810,401, and DE 36 19 746 A1;

Abstracts of Spring Meeting of Japan Society of Powder and Powder Metallurgy,
2003, pages 1, 85, 86 and 137, accompanied by an English language abstract;

Fuchun ZHANG et al., "Solution Conditions for CoNi Ferrite Perpendicular Magnetic Recording Thin Films", Journal of the Japan Society Powder and Powder Metallurgy, Vol. 47, No. 7, pp. 730-732 (2000);

H. YAMAMOTO et al., "Magnetic Properties of Co-Ni Spinel Ferrite Fine Particles with High Coercivity Prepared by the Chemical Coprecipitation Method", IEEE Transaction on Magnetism, Vol. 38, No. 5, pp. 3488-3492, September 2002, which is cited in the specification beginning on page 3, line 1;

S. CHIKAZUMI et al., "Physics of Ferromagnetic Substance, Second Edition", SHOKABO Publishing Co., Ltd., Chapter 12, pp. 13, 1984, which is cited in the specification beginning on page 23, line 6;

I.S. JACOBS et al., "Magnetic Anisotropy and Rotational Hysteresis in Elongated Fine-Particle Magnets", Journal of Applied Physics, Vol. 28, No. 4, pp. 467-473, April 1957, which is cited in the specification beginning on page 23, line 12;

D.M. PAIGE et al., "High Precision Torque Hysteresis Measurements on Fine Particle Systems", IEEE Trans. Magnetics, Vol. 20, pp. 1852-1854, 1984, which is cited in the specification beginning on page 23, line 13; and

CHO et al., "Effect of Adding Ni to Co Ferrite Thin Film", Powder and Powder Metallurgy, Vol. 7, No. 2, p 171-174, 25th of February 2000, which is cited in the specification beginning on page 1, line 27.

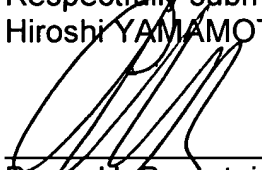
Further to the U.S. Patent and Trademark Office's decision to waive the requirement under 37 C.F.R 1.98 (a)(2)(i), a copy of the U.S. patent is not enclosed herewith. However, if a copy is needed, the Examiner is respectfully requested to contact the undersigned.

Copies of the above-noted documents, except for the U.S. Patent and CHO et al., which is not readily available to the undersigned, are enclosed together with a duly completed Form PTO-1449. The Examiner is accordingly requested to consider each of these documents, and to make them of record in this application by initialing in the appropriate spaces on the Form PTO-1449. Applicants respectfully request that the Examiner include a copy of the initialed Form PTO-1449 with the next communication from the U.S. Patent and Trademark Office.

In accordance with 37 C.F.R. 1.97(b)(1), this Information Disclosure Statement is filed within three months of the filing date of the application. Accordingly, no fees are required.

Should there be any questions, the Examiner is invited to contact the undersigned at the below listed telephone number.

Respectfully submitted,
Hiroshi YAMAMOTO

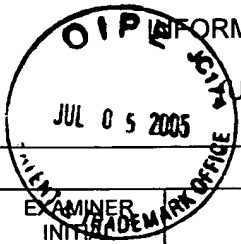


Bruce H. Bernstein
Reg. No. 29,027

July 5, 2005
GREENBLUM & BERNSTEIN, P.L.C.
1950 Roland Clarke Place
Reston, VA 20191
(703) 716-1191

Arnold Turk
Reg. No. 33,094

FORM PTO-1449

U.S. Department of Commerce
Patent and Trademark OfficeAtty. Docket No.
P27664Application No.
10/530,330INFORMATION DISCLOSURE STATEMENT
BY APPLICANT

(Use several sheets if necessary)

Applicant
Hiroshi YAMAMOTO et al.Filing Date
April 5, 2005Group
Not Known

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	4 8 1 0 4 0 1	03/07/89	MAIR ET AL.			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
5	- 0 3 2 4 2 0	02/09/93	JAPAN			
6	- 0 2 0 8 2 0	01/28/94	JAPAN			
6	- 0 5 3 0 2 2	02/25/94	JAPAN			
7	- 0 3 7 7 1 1	02/07/95	JAPAN			
7	- 0 6 1 8 1 4	03/07/95	JAPAN			
7	- 2 6 7 6 4 5	10/17/95	JAPAN			
8	- 0 2 6 7 3 1	01/30/96	JAPAN			
8	- 2 0 8 2 3 1	08/13/96	JAPAN			
11	- 2 2 4 8 1 2	08/17/99	JAPAN			
2000	- 1 0 3 6 1 6	04/11/00	JAPAN			
2001	- 0 4 8 5 2 9	02/20/01	JAPAN			
2002	- 3 1 3 6 1 8	10/25/02	JAPAN			
11	- 0 0 3 8 1 3	01/06/99	JAPAN			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

1	English Language Abstract of JP 5-032420, published February 9, 1993.
2	English Language Abstract of JP 6-020820, published January 28, 1994.
3	English Language Abstract of JP 6-053022, published February 25, 1994.
4	English Language Abstract of JP 7-037711, published February 7, 1995.
5	English Language Abstract of JP 7-061814, published March 7, 1995.
6	English Language Abstract of JP 7-267645, published October 17, 1995.
7	English Language Abstract of JP 8-026731, published January 30, 1996.
8	English Language Abstract of JP 8-208231, published August 13, 1996.
9	English Language Abstract of JP 11-224812, published August 17, 1999.
10	English Language Abstract of JP 2000-103616, published April 11, 2000.
11	English Language Abstract of JP 2001-048529, published February 20, 2001.
12	English Language Abstract of JP 2002-313618, published October 25, 2002.
13	English Language Abstract of JP 11-003813, published January 6, 1999.

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449	U.S. Department of Commerce Patent and Trademark Office	Atty. Docket No. P27664	Application No. 10/530,330
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		Applicant Hiroshi YAMAMOTO et al.	
		Filing Date April 5, 2005	Group Not Known

FOREIGN PATENT DOCUMENTS								
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES	NO
	6	- 0 4 5 1 2 9	02/18/94	JAPAN				
	52	- 0 0 7 1 6 0	02/28/77	JAPAN				
	50	- 0 7 8 5 9 9	06/26/75	JAPAN				
	7	- 2 6 7 6 4 5	10/17/95	JAPAN				
	6	- 2 2 4 0 2 0	08/12/94	JAPAN				
	8	- 1 1 9 6 3 5	05/14/96	JAPAN				
	7	- 3 1 5 8 4 4	12/05/95	JAPAN				
	63	- 0 1 1 5 2 5	01/19/88	JAPAN				
		0 2 4 9 2 2 9	12/16/87	E.P.O.				
		0 4 6 0 7 1 4	12/11/91	E.P.O.				
		3 6 1 9 7 4 6	12/17/87	GERMANY				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

14	English Language Abstract of JP 6-045129, published February 18, 1994.
15	English Language Abstract of JP 7-267645, published October 17, 1995
16	English Language Abstract of JP 6-224020, published May 14, 1996. <i>Al. 7/5/05</i>
17	English Language Abstract of JP 6-224020, published August 12, 1994.
18	English Language Abstract of JP 8-119635, published May 14, 1996.
19	English Language Abstract of JP 7-315844, published December 5, 1995.
20	Abstracts of Spring Meeting of Japan Society of Powder and Powder Metallurgy, 2003, pages 1, 85, 86 and 137, accompanied by an English language abstract.
21	Fuchun ZHANG et al., "Solution Conditions for CoNi Ferrite Perpendicular Magnetic Recording Thin Films", Journal of the Japan Society Powder and Powder Metallurgy, Vol. 47, No. 7, pp. 730-732 (2000).
22	H. YAMAMOTO et al., "Magnetic Properties of Co-Ni Spinel Ferrite Fine Particles with High Coercivity Prepared by the Chemical Coprecipitation Method", IEEE Transaction on Magnetics, Vol. 38, No. 5, pp. 3488-3492, September 2002.
23	S. CHIKAZUMI et al., "Physics of Ferromagnetic Substance, Second Edition", SHOKABO Publishing Co., Ltd., Chapter 12, pp. 13, 1984.
24	I.S. JACOBS et al., "Magnetic Anisotropy and Rotational Hysteresis in Elongated Fine-Particle Magnets", Journal of Applied Physics, Vol. 28, No. 4, pp. 467-473, April 1957.
25	D.M. PAIGE et al., "High Precision Torque Hysteresis Measurements on Fine Particle Systems", IEEE Trans. Magen, Vol. 20, pp. 1852-1854, 1984.
26	CHO et al., "Effect of Adding Ni to Co Ferrite Thin Film", Powder and Powder Metallurgy, Vol. 7, No. 2, p 171-174, 25 th of February 2000.

EXAMINER	DATE CONSIDERED
----------	-----------------

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.